

Safety Valves

Type 06603



Safety Valves, angle type, bronze, type tested TÜV-SV.1080. D/G

Standard safety valve
with O-ring valve seal,
closed bonnet, with lifting device,
with enlarged outlet
In- and outlet: female thread type G (BSPP) acc. to ISO 228/1

Part No. 06603.1204.0000

Available options - on request only:

- external parts nickel plated



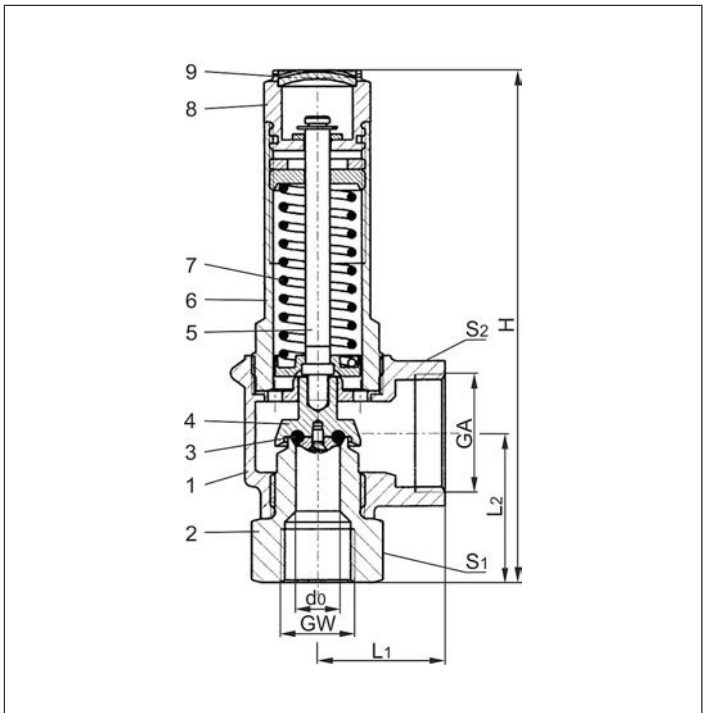
Applications:

Provided as safety device for protection against excessive pressure in pressure vessels and steam boilers. Approved for non-toxic gases, vapours and for saturated steam.

Working temperature: -10°C / +14°F (263K) up to +180°C / +356°F (453K)

For saturated steam use only up to 3 bar and +135°C / +275°F (408K)

Materials	DIN EN	ASTM
1 Body	CC491K	B 62 UNS C83600
2 Inlet body	CW614N	B 111 UNS C28000
3 O-ring	EPDM	
4 Disc	CW614N	B 249 UNS C38500
5 Stem	CW614N	B 249 UNS C38500
6 Bonnet	CW614N	B 249 UNS C38500
7 Spring	1.4571	A 313 Grade 316Ti
8 Lifting device	CW614N	B 249 UNS C38500
9 Closing cap	CW507L	B 36 UNS C26800



Essential: Valves are delivered at a set pressure, therefore when ordering please confirm set pressure, medium and temperature.

Standard marking acc. to Pressure Equipment Directive 97/23/EC (PED).



Type 06603	Technical data	
Nominal size	GW	1/2
Orifice	d ₀	12.5
Set pressure range	bar	0.2-5
Outlet	GA	1
Height	H	145
Length	L ₁	36
Length	L ₂	42
Wrench size across flats	S ₁	32
Wrench size across flats	S ₂	41
Weight	ca. kg	0.7
Coeff. of discharge from 3.0 bar	α _w	0.74

Dimensions in mm.

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Discharge capacities

Calculation of mass flow acc. to AD2000-Merkblatt A2

Medium:

Air in m³/h at 0°C and 1013.25 mbar

Saturated steam in kg/h

The capacity indicated below is for a fully opened valve.

d₀ - orifice

A₀ - flow area

Set pressure in bar (g)	GW	1/2	1/2
	d ₀ (mm)	12.5	12.5
	A ₀ (mm ²)	122.7	122.7
	Medium	Air	Saturated steam
0.2		50	43
0.5		79	66
1.0		120	96
1.5		160	128
2.0		196	154
2.5		231	182
3.0		267	208
3.5		301	235
4.0		335	260
4.5		369	287
5.0		404	311